

STATE OF CALIFORNIA

CALIFORNIA INTEGRATED WASTE MANAGEMENT BOARD

Base Year Modification Request Certification

Part 1: Generation Study - No Extrapolation Diversion Data

To request a substitution for a previously approved base-year used in calculating the diversion rate for your jurisdiction, please complete and sign this form and return it to your Office of Local Assistance (OLA) representative at the address below, along with any additional information requested by OLA staff. When all documentation has been received, your OLA representative will work with you to prepare for your appearance before the Board. If you have any questions about this process, please call (916) 341-6199 to be connected to your OLA representative.

Mail completed documents to:

California Integrated Waste Management Board  
Office of Local Assistance  
1001 I Street, 9th Floor  
PO Box 4025  
Sacramento, CA 95812-4025

General Instructions:

Please select the **ONE** choice below that best explains your request to the Board.

1. Use a recent generation-based study to calculate our current reporting-year generation amount, but not officially change our existing Board-approved base year.

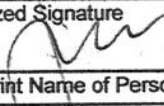
**X 2. Use a recent generation-based study to officially change our existing Board-approved base year to a new base year.**

The cells on these sheets are protected except for the ones that need information. If you have problems using these sheets, please contact your Office of Local Assistance representative.

**Section I: Jurisdiction Information and Certification**

*All respondents must complete this section.*

I certify under penalty of perjury that the information in this document is true and correct to the best of my knowledge, and that I am authorized to make this certification on behalf of:

Jurisdiction Name <b>Madera County Unincorporated</b>		County <b>Madera County</b>	
Authorized Signature 		Title <b>County Engineer</b>	
Type/Print Name of Person Signing <b>John Mitchell</b>	Date	Phone ( ) <b>(559) 675-7817</b>	
Person Completing This Form (please print or type) <b>Jim Greco</b>		Title <b>Owner/Principal</b>	
Affiliation:	<b>California Waste Associates</b>		
Mailing Address	City	State	ZIP Code
<b>P. O. Box 5177</b>	<b>El Dorado Hills</b>	<b>CA</b>	<b>95762</b>
E-mail address <b>igwaste@aol.com</b>			

**Section II: Information for New Generation-Based Study for Existing or New Base Year**

**Attach additional sheets if necessary— reference each response to the appropriate cell number (e.g., 4).**

*Note: New base years must be representative of a jurisdiction's disposal and diversion.*

<b>1. Current Board-approved base-year:</b>	<b>2. Proposed new generation-based study year:</b>
1990	2003

**3. Explain how the proposed generation study year is representative of average annual jurisdiction disposal and diversion:**  
The County has contacted a number of waste generators and obtained information about diversion programs, including, in many cases, weighed and/or estimated tonnage. The proposed new base year reflects the most complete effort to date to identify diversion activities and to quantify their performance. The County feels that the accuracy of the diversion study is comparable to prior studies conducted in the Central Valley area and may even surpass the comprehensiveness and accuracy of prior studies.

**4. Enter your diversion rates below.**

<b>Diversion rate calculated using existing base year</b>	<b>a. 25 %</b>	<b>Diversion rate calculated using new generation-based study</b>	<b>b. 63.0 %</b>
<b>For existing base year pounds/person/day based on generation</b>	<b>6.9</b>	<b>For new generation based study pounds/person/day based on generation</b>	<b>13.2</b>
<b>Residential generation 11%</b>	<b>Non-Residential Generation 89%</b>	<b>Residential generation 19%</b>	<b>Non-Residential Generation 81%</b>
<b>Population existing generation-based study 52,877</b>		<b>Population new generation-based study 71,500</b>	

**5. If there is an increase between 4a and 4b, please explain how the new diversion rate is consistent with your current diversion implementation efforts. If the proposed new generation tonnage results in an increase in your pounds/person/day, please explain how this is consistent with your current diversion implementation efforts and provide any examples, e.g. change in jurisdiction's demographics.**

The County has experienced rapid growth since 1990. The original base year was under-estimated, resulting in a low per capita (e.g., 6.9 ppd). This per capita is below the statewide average for 1990 base year waste generation amounts. During the surveying of many manufacturers in 2003, it became apparent that the original waste generation study under-estimated the amount of diversion occurring in the unincorporated area. Additionally, the rapid growth in the housing market and the nonresidential sector resulted in increased waste generation. The County feels that the adjustment methodology did not accurately estimate waste generation in reporting years. The new diversion rate represents a more accurate estimate of diversion performance. Furthermore, the new WGS will facilitate implementation of diversion programs focused on the residential sector, which will enhance compliance with the spirit of AB 939.

**6. If the difference between the proposed diversion rates in 4a and 4b is greater than 5 percentage points, please explain the specific reasons for the difference. (For example: new/improved curbside diversion programs.)**

The significant difference in diversion rates is due to the measurement methodology and the under-recognition of diversion performance in the nonresidential sector. The measurement methodology utilizes a base year waste generation which was under-estimated in 1990 and the adjustment methodology did not accurately estimate reporting year waste generation. During the diversion survey of the nonresidential sector in 2004 about diversion program implementation in 2003, it was discovered that the nonresidential sector was achieving substantial disposal reduction with program implementation.

<b>7. Disposal Tonnage: (enter values)</b>	30,893	32980	63873
	Residential	Non-Residential	Total

Please select the **ONE** choice below that best explains your **disposal** data and complete the required tables.

a. All tons claimed are from the Board's Disposal Reporting System (No explanation required. Go to Section 8.)

b. All tons claimed are from a 100 percent audit of hauler and self-haul tonnage. (Please complete Reporting Year Tonnage Request and Modification Certification sheet found at <http://www.ciwmb.ca.gov/lgcentral/forms/rytnmdrq.doc>)

☒ c. Some Disposal Reporting System data were corrected. (Please complete Reporting Year Tonnage Modification Request and Certification sheet found at <http://www.ciwmb.ca.gov/lgcentral/forms/rytnmdrq.doc>)

8. In the table below, list the summarized diversion activities, and diversion data records that support your claim and are available for Board audit. (Note: The Board expects the jurisdictions to be able to provide all back-up documentation, if requested) Include type of record and location—for example, weight tickets from transfer stations. This section should capture all diversion tonnage (form will perform all addition calculations). If any diversion is from restricted wastes, [agricultural wastes, inert solids (e.g., concrete, asphalt, dirt, etc.), white goods, and scrap metal] please identify those programs/waste types and fill out section 10. Please mark as Attachment 8 all copies of survey forms.

\*Please provide detailed non-Residential waste audit information in Section 9.

Diversion Activity	Actual tons	Relative Percent to Total Generation	Specific material type's (List operation w/multiple materials in one box)	Specific conversion factor used (if any) and Source	Type of record and location of record
Please use the Board's program types. The program type glossary is online at: <a href="http://www.ciwmb.ca.gov/lgcentral/paris/codes/reduce.htm">http://www.ciwmb.ca.gov/lgcentral/paris/codes/reduce.htm</a>	(A)	(A/Total Generation)			
<b>Residential Activities:</b>					
<b>Source Reduction</b>					
Backyard Composting (PARIS 1010)	0.00	0.00%	Grass, leaves, branches	No data obtained	N/A
<b>Other Residential source reduction (list each program separately)</b>					
MEF, Thrift, Reuse (PARIS 1060)	0.00	0.00%	Donated house goods, clothing	No Data Obtained	N/A
<b>Subtotal Residential Source Reduction</b>	<b>0</b>	<b>0.00%</b>			
<b>Recycling</b>					
Curbside Recycling (PARIS 2000)	0.00	0.00%	Pilot Program to be started		None Yet
Buyback Centers (PARIS 2020)	661.00	0.38%	CRV containers	Source: DOC	Letter, report (Couty)
Drop-off Centers (PARIS 2010)	8.00	0.00%	CRV containers	Fresno Conservation Corps	County
Drop-off Centers (PARIS 2010)	0.00	0.00%			



Other Residential recycling (list each program separately)					
Spcl Collection Events (PARIS 2080)	0.00	0.00%	0	0	0
Special/Xmas Trees (PARIS 2070)	5.00	0.00%	Christmas Trees	300 trees @ 30 lbs/tree by Hensley Rec Area	County
Landfill Salvage (PARIS 7010)	2.00	0.00%	Wood	Mono County records	Mono, Madera Cty
MRF (PARIS 7000)	1,455.00	0.84%	CB, mixed paper, metals, other recyclable commodities	Facility operator records based on weighed loads	MRF Operator, County
ADC (PARIS 7040)	22.00	0.01%	Green waste	Madera Disposal Systems records at Fairmead Landfill	MDSI
<b>Subtotal Residential Recycling</b>	<b>2,153.00</b>	<b>1.25%</b>			
Composting					
Curbside GW (PARIS 3000)	0.00	0.00%	Pilot program to be started	0	0
Other Residential composting (list each program separately)					
Enter program name					
<b>Subtotal Residential Composting</b>	<b>0</b>	<b>0.00%</b>			
<b>Subtotal Residential Diversion</b>	<b>2,153.00</b>	<b>1.25%</b>			
Non-Residential Activities:					
Source Reduction					
Non-Residential Waste Audits*	0.00	0.00%			
Other non-Residential source reduction (list each program separately)					
Grasscycling (PARIS 1000)	7,949.00	4.61%	Grass clippings - 5 golf courses, 3 rec areas, schools, 1 Community College, 4 cemeteries, 2 mfrs	0.1466 tons/week, 852.61 mowable acres. Source: CIWMB, Z. Poulson	Survey forms, supporting records (County).
Business SR (PARIS 1020)	1,050.00	0.61%	White fibre from Mfr C process	None	County
Business SR (PARIS 1020)	2,775.00	1.61%	Pallets repaired and sold for reuse by recycler for MFR D	40 lbs/standard size	County
Business SR (PARIS 1020)	2,127.00	1.23%	Pallets repaired and sold for reuse by MFR F	40 lbs/standard size	County
Business SR (PARIS 1020)	1.00	0.00%	CB, wood - packing business	None	County
Business SR (PARIS 1020)	40.00	0.02%	Pallets - MFR C	40 lbs/standard size	County

Business SR (PARIS 1020)	1.00	0.00%	Floral stands - funerals, cemeteries	1 lb/floral stand	County
Business SR (PARIS 1020)	52.00	0.03%	Food - donations by grocer	None	
<b>Subtotal Non-Residential Source Reduction</b>	<b>13,995.00</b>	<b>8.11%</b>			
<b>Recycling</b>					
Non-Residential Waste Audits*	0.00	0.00%			
<b>Other non-Residential recycling (list each program separately)</b>					
Commercial Onsite P/U (PARIS 2030)	8.00	0.00%	Cardboard, mixed paper, YW	Fresno Conservation Corps	County
Commercial Onsite P/U (PARIS 2030)	49.00	0.03%	Cardboard	Paper Recycler B collection	County
Commercial Onsite P/U (PARIS 2030)	5.00	0.00%	Cardboard	Collector for Ag Bus B	County
Commercial Onsite P/U (PARIS 2030)	23.00	0.01%	Cardboard	Collector for Ag Bus C	County
Commercial Onsite P/U (PARIS 2030)	2.00	0.00%	Cardboard	Collector for MFR E	County
Commercial Onsite P/U (PARIS 2030)	700.00	0.41%	Cardboard	Collector for MFR F	County
Commercial Self Haul (PARIS 2040)	30.00	0.02%	Cardboard	MFR A	County
Commercial Self Haul (PARIS 2040)	1.00	0.00%	Office paper, plastic containers	Hensley Rec Area	County
Commercial Self Haul (PARIS 2040)	26.00	0.02%	Cardboard	Grocer A	County
Commercial Self Haul (PARIS 2040)	237.00	0.14%	CB, MP, Plastic film	Grocer B	County
Commercial Self Haul (PARIS 2040)	385.00	0.22%	CB	Grocer C	County
School Recycling (PARIS 2050)	23.00	0.01%	OCC	Collector for 3 schools	County
Other/Food Recycling (PARIS 2090)	19.00	0.01%	Food Waste	Grocer A Records	County
Other/Recyclers (PARIS 2090)	362.00	0.21%	CB, MP, Plastic film	Paper Recycler A collection/processing from businesses	County
Other/Recyclers (PARIS 2090)	14,690.00	8.51%	Cardboard	Scrap Paper - weight tickets for MFR D	County

Other/Recyclers (PARIS 2090)	1,115.00	0.65%	CB, MP, Plastic film	Paper Recycler C collection/processing from 4 companies	County
Other/Recycling (PARIS 2090)	1,063.00	0.62%	Glass, plastic film	Glass, plastic recyclers	County
Other/Recycling (PARIS 2090)	5.00	0.00%	Emulsifier in mfg process	MFR C recycling since 1994	County
Other/Recycling (PARIS 2090)	228.00	0.13%	CB, plastic	Baled CB, PL by MFR C	County
Other/Recycling (PARIS 2090)	22.00	0.01%	Plastic banding	Recycled by MFR C	County
Other/Recycling (PARIS 2090)	29.00	0.02%	CRV, office paper	Collected by recycler from MFR C	County
Other/Recycling (PARIS 2090)	184.00	0.11%	CB, Plastic	Pharmacy A Records	County
Other/Recycling (PARIS 2090)	24.00	0.01%	CB	MFG G rolloff volume pulls	County
Other/Ag Waste Recycling (PARIS 2090)	200.00	0.12%	Grains	Waste seeds recycled as food for animal stocks by Ag Business C	County
MRF (PARIS 7000)	1,455.00	0.84%	CB, mixed paper, metals, other recyclable commodities	Facility operator records based on weighed loads	MRF Operator, County
<b>Subtotal Non-Residential Recycling</b>	<b>20,885.00</b>	<b>12.10%</b>			
<b>Composting</b>					
Non-Residential Waste Audits*	0.00	0.00%			
<b>Other non-Residential composting (list each program separately)</b>					
Other Composting/Agriculture (3070)	14,237.00	8.25%	Filter powder - land application	Collector for MFR B	Collector
Other Composting/Agriculture (3070)	130.00	0.08%	Crop residues - land application	Collector for Ag Bus E	Collector
Other Composting/Agriculture (3070)	1,750.00	1.01%	Crop residues - land application	Self haul by Ag Bus B	Ag Bus B
Other Composting/Agriculture (3070)	580.00	0.34%	Crop residues - land application	Collector for Ag Bus D	Collector
Other Composting/Agriculture (3070)	510.00	0.30%	Crop residues - land application	Collector for Ag Bus F	Collector
Other Composting/Agriculture (3070)	210.00	0.12%	Crop residues - land application	Collector for Ag Bus A	Collector
Other Composting/Business (3070)	15.00	0.01%	Brush - chip and grind	Madera Golf Course	County
Other Composting/Business (3070)	5.00	0.00%	Brush - chip and grind	Sierra Ranch Meadows GC	County
Other Composting/Govt (3070)	5.00	0.00%	Brush - chip and grind	Hensley Lake Rec Area	County
Other Composting/Govt (3070)	10.00	0.01%	Brush - chip and grind	Millerton Lake State Rec Area	County



Other Composting/Grocers (3070)	50.00	0.03%	Food backhauled to compost facility	Grocer B - weights	County
Other Composting/Grocers (3070)	250.00	0.14%	Produce composted	Grocer C records	County
Other Composting/Manure (3070)	511.00	0.30%	Horse manure composted in fields w/ straw	140 horses @ 20 ppd per horse	County
Other Composting/Manure (3070)	7.00	0.00%	Horse manure composted in fields w/ straw	2 horses @ 20 ppd per horse	County
Other Composting/Straw (3070)	100.00	0.06%	Straw composted w/ horse manure	Estimated by Rancher B	County
<b>Subtotal Non-Residential Composting</b>	<b>18,370.00</b>	<b>10.64%</b>			
<b>Subtotal Non-Residential Diversion</b>	<b>53,250.00</b>	<b>30.85%</b>			
<b>Residential/Non-Residential Diversion Activities</b>					
Tires (4020)	156.00	0.09%	Tires - City Amnesty Day Event	60% County share of 26,000 tires @ 20 lbs/tire	City of Madera
Scrap Metal (PARIS 4040)	433.00	0.25%	Scrap metals	Weight tickets by MFR A	Mfr A
Scrap Metal (PARIS 4040)	23.00	0.01%	Scrap metals	Metal sculpture artist	County
Scrap Metal (PARIS 4040)	1,060.00	0.61%	Scrap metals	Invoices from MFR F	Mfr E
Scrap Metal (PARIS 4040)	3.00	0.00%	Metal shelves, carts sent to dealer	Grocer C records	County
Wood Waste (PARIS 4050)	0.00	0.00%			
Rubble/Asphalt/Concrete (4060)	11,748.00	6.81%	Broken asphalt and concrete	Boneyards used by County Road Dept (1,855 pcy for rubble)	County
Rubble/Asphalt/Concrete (4060)	3,000.00	1.74%	Broken asphalt and concrete	Inerts Recycler A volume estimates; company estimate	County
Rubble/Asphalt/Concrete (4060)	4,800.00	2.78%	Broken asphalt and concrete	Inerts processor estimate of volume @ 1,855 pcy for rubble.	County
Rubble/Asphalt/Concrete (4060)	8,000.00	4.63%	Broken, returned concrete	Inerts Recycler C volume, weight estimates	County
Rubble/Asphalt/Concrete (4060)	19,600.00	11.35%	Broken asphalt and concrete	Inerts processor estimate of volume @ 1,855 pcy for rubble.	County

Rubble/Asphalt/Concrete (4060)				Used by Fairmead LF operator for road base, structural reinforcement, wet weather pad, and some ADC	
	4,344.00	2.52%	Broken asphalt and concrete		Operator
Rendering (PARIS 4090)	17.00	0.01%	Bone, fat, grease, vegetable	Grocer B - weights	County
Rendering (PARIS 4090)	28.00	0.02%	Bone, fat, grease, vegetable	Renderer A	County
Rendering (PARIS 4090)	68.00	0.04%	Bone, fat, grease, vegetable	Renderer B	County
Rendering (PARIS 4090)	56.00	0.03%	Bone, fat, grease, vegetable	Grocer C records	County
<b>Subtotal Residential/Non-Residential diversion</b>	<b>53,336.00</b>	<b>30.90%</b>			
<b>Total Diversion Tons</b>	<b>108,739.00</b>	<b>63.00%</b>			
<b>Total Disposal Tons from Sec.7</b>	<b>63,873.00</b>	<b>37.00%</b>			
<b>Total Generation Tons (Div+Dis)</b>	<b>172,612.00</b>				



### 9. Specific Non-Residential Sector Waste Audits-Top 10 Non-Residential Generators

Please complete this table for the top 10 non-residential generators that were surveyed. List each non-residential generator separately from largest to smallest, based on total diversion tons. Audit reference number ties to your audit sheets.

**(Form will perform all addition calculations).**

Please provide an attachment 9 which includes all of the generators surveyed. Include for each generator (use type of generator in lieu of specific business name) diversion activity and material type and associated tonnage for each diversion activity/material type. Include copies of survey form(s) used.

Type of Non-residential Generator	Audit Reference Number *	Specific/Major Diversion Activities Include material type (e.g. paper recycling, grasscycling). (List activities on one line)	Source Reduction Tons	Recycling Tons	Composting Tons	Total Diversion Tons	Percent of Total Generation (Total Diversion Tons/Total Generation in Section 8)	Survey Method Phone (P) Mail (M) On-site (O) Other ____
Manufacturer B	2	Filter powder from wine process		1063.00	14237.00	15300.00	8.9%	P, M, O
Manufacturer D	3	Cardboard, OCC trim scraps		14690.00		14690.00	8.5%	P, M, O
Manufacturer F	8	Grasscycling, pallet repair and reuse	2129.00	1760.00		3889.00	2.3%	P, M, O
Eastman Lake Rec Area	11	Grasscycling	2492.00			2492.00	1.4%	P, M
Agriculture Business B	12	CB recycling, crop residues land application		5.00	1750.00	1755.00	1.0%	P, M
Manufacturer C	13	Grasscycling, pallet repair and reuse, white fibre source reduced; CB, plastic, CRV recycling.	1136.00	284.00		1420.00	0.8%	P, M, O
Sierra Ranch Mdows GC	14	Grasscycling	1143.00			1143.00	0.7%	P, M
Riverbend Golf Club	16	Grasscycling	915.00			915.00	0.5%	P, M, O
River Creek Golf Course	17	Grasscycling	915.00			915.00	0.5%	P, M
Madera Golf & CC	18	Grasscycling, chip and grind brush	873.00		15.00	888.00	0.5%	P, M, O
Grocer C	19	Produce, CB, plastic, food waste		444.00	250.00	694.00	0.4%	P, M
<b>Totals</b>			<b>9603.00</b>	<b>18246.00</b>	<b>16252.00</b>	<b>44101.00</b>	<b>25.5%</b>	

\* Please see Table 3 and Section 5.0 in the report titled "City of Elk Grove Solid Waste Generation Study for 2002" dated November 14, 2003.

10. For each restricted waste type [i.e., agricultural waste, inert solids, (e.g. concrete, asphalt, dirt, etc.) scrap metals and white goods (PRC Section 41781.2)] and associated program, please provide the following information:

a. If the diversion program started on or after January 1, 1990, complete the following table.

(Note: program name refers to one specific diversion program for that waste type; (e.g., diversion conducted by City Public Waste Dept).

Restricted Waste Type	Specific Program name				Year started	Tonnage	
Metals	Artist Sculpture				Early 2000		23
Metals	Manufacturer F				Early 1990's		1060
Metals	Grocer C				Late 1990's		3
Inerts	Inerts Recycler A				2001		3000
Inerts	Inerts Recycler C				1992		8000
Inerts	Inerts Recycler D				2001		19600
Inerts	Fairmead Landfill				~ 1995		4344

b. If the diversion program started before January 1, 1990, on a separate sheet, marked attachment 10b, provide the following documentation: (Note: If documentation for a waste type and program has already been approved by the Board, you do not have to provide an attachment 10b for that waste type and program.

Instead please provide date of Board approval of previously submitted information. \_\_\_\_\_ (Date)

If documentation is not available, go to 10d.

- How the diversion was the result of a local action taken by the jurisdiction, which specifically resulted in the diversion [PRC Sec. 41781.2 (c) (1)].
- That the amount of that waste type diverted from the jurisdiction in 1990 was less than or equal to the amount of that waste type disposed at a permitted disposal facility by the jurisdiction in any year before 1990. (Note: this criterion is applicable to the entire jurisdiction, not to individual programs [PRC Sec. 41781.2 (c) (2)]).
- The jurisdiction is implementing, and will continue to implement, the diversion programs in its Source Reduction and Recycling Element.

c. If the diversion program started before January 1, 1990, and the documentation requested in 10b is available (but not yet approved by the Board), complete the table below for each program claimed:

Restricted Waste Type	Specific Program Name	New base year or reporting year diversion tonnage

d. If the diversion program started before January 1, 1990, and the documentation requested in 10b is not available, please complete the table below for each program claimed. (**Note:** Only the difference between the new base year/reporting year and 1990 can be counted in the diversion rate calculation.)

Restricted Waste Type	Specific Program name	New base year or reporting year tonnage	1990 diversion tonnage	Difference
pull down for waste types				
pull down for waste types				
pull down for waste types				
pull down for waste types				
pull down for waste types				
pull down for waste types				

**10b.** If the diversion program started before January 1, 1990, on a separate sheet, marked attachment 10b, provide the following documentation: (Note: If documentation for a waste type and program has already been approved by the Board, you do not have to provide an attachment 10b for that waste type and program.)

**Manufacturer A** started recycling scrap metals before 1990. In 1990 the MFR reported recycling approximately 432 tons. The County is claiming only the increase in recycling since 1990, which is 433 tons.

**County Road Department** has been recycling grindings for nearly 20 years. The SRRE and WGS done for 1990 reported 25,920 tons of inert solids as being diverted. However, this material type was not approved by the CIWMB because the restricted waste criteria was not met at that time. Thus, no tonnage was recognized as being diverted in 1990. As a result, the County is requesting approval of the entire amount of road grindings being diverted as quantified in the 2003 WGS. This amount is 11,748 tons.

**Inerts Recycler B** has been recycling rubble since 1968. It has been estimated that this recycler diverted 4,800 tons in 2003. The County has not been able to determine what this recycler was diverting in 1990.